	CERTIFICATE OF MAILING	3	
	correspondence is being deposited with the United Si		
envelope addressed to:	Assistant Commissioner for Patents, Washington, D.	C. 20231 o	n this date: July 10, 2001
Typed or printed name	Alexandra Allison		
Signature	auxander allisen	Date	July 10, 2001

OIPE CAR STRADE TRADE POSTAL S

Thereby certify that this correspondence is being deposited with the United States
Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents, Washington, D.C. 20231, On_July 10, 2001

The Law Offices of Jonathan Alan Quine

By allyandra allian

Attorney Docket No. 33-000320US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Nikolai F. Sepetov, et al.

Application No.: 09/776,233

Filed: February 2, 2001

For: NONREDUNDANT SPLIT/POOL SYNTHESIS OF COMBINATORIAL

LIBRARIES

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR § 1.97 and

§ 1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and



Application No.: 09/776,233

Page 2

no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the abovenoted Deposit Account.

Respectfully submitted,

Christopher C. Sappenfield

Reg. No. 45,073

THE LAW OFFICES OF JONATHAN ALAN QUINE

P.O. Box 458

Alameda, CA 94501 Tel: (510) 337-7871

Fax: (510) 337-7877

CCS:afa

JUL 1 3, 2001

PA ADEMAN Complete if Known Substitute for form 1449A-B/PTO 09/776233 pplication Number F bruary 2, 2001 INFORMATION DISCLOSURE Filing Date Nikolai F. Sepetov STATEMENT BY APPLICANT First Named Inventor Unassign d Group Art Unit Unassigned **Examiner Name** (use as many sheets as necessary) Attorney Docket Number 33-000320US

	U.S. PATENT DOCUMENTS						
		U.S. Patent Document				Date of Publication of	Pages, Columns, lines,
Examiner Initials	Cite No.	Number	Kind Code (if known)	Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appeal	
	AA	4,631,211		Houghten	12-23-1986		
	AB	5,143,854		Pirrung et al.	09-01-1992		

	FOREIGN PATENT DOCUMENTS							
Examiner Initials	· Cite	Office	Foreign Patent Docume	ent Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
		011100		(1)				

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examin er Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	AC	Barnes et al. (1998) S. Rec. Res. Dev. Org. Chem. 2:367-379	
	AD	Berlin et al. (1997) "Spectrometrically Monitored Selection Experiments-Quantitative Laser Desorption Mass Spectrometry of Small Chemical Libraries," Chem. Biol. 4:63-77	
	AE	Brummel et al. (1996) "Evaluation of Mass Spectrometric Methods Applicable to the Direct Analysis of Non-Peptide Bead-Bound Combinatorial Libraries," N. Anal. Chem. 68:237-242	
	AF	Bunin and Ellman (1992) "A general and expedient method for the solid phase synthesis of 1,4-benzodiazepine derivatives," <u>J. Amer. Chem. Soc.</u> 114:10997-10998	
	AG	Carrasco et al. (1997) "Direct Monitoring of Organic Reactions on Polymeric Supports," <u>Tetrahedron Lett.</u> 38:6331-6334	
	АН	Chu et al. (1993) "Using affinity capillary electrophoresis to identify the peptide in a peptide library that binds most tightly to vancomycin," <u>J. Org. Chem.</u> 58:648-652,	
	Al	Czarnik (1997) "Encoding methods for combinatorial chemistry," <u>Curr. Opin. Chem. Biol.</u> 1:60-66	
	AJ	Davis and Swayze (2000) "Automated solid-phase synthesis of linear nitrogen-linked compounds," <u>Biotechnol. Bioeng.</u> 71:19-27	
	AK	Demirev and Zubarev (1997) "Probing combinatorial library diversity by mass spectrometry," Anal. Chem. 69:2893-2900	
	AL	DeWitt et al. (1993) "'Diversomers': an approach to nonpeptide, nonoligomeric chemical diversity," Proc. Natl. Acad. Sci. USA 90:6909-6913	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Supporting for form 1449A-B/PTO
TRACE
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Complete if Known		
Application Number	09/776233	
Filing Date	February 2, 2001	
First Named Inventor	Nikolai F. S p tov	
Group Art Unit	Unassign d	
Examiner Name	Unassigned	
Attorney Docket Number	33-000320US	

(use as many sheets as necessary)

A	Enjalbal et al., (2000) "Mass spectrometry in combinatorial chemistry," Mass Spectrom. Rev. 19:139-161
A	Fitch et al. (1994) "High-resolution (1)H NMR in solid-phase organic synthesis," <u>J. Org. Chem.</u> 59:7955-7956
A	Gao et al. (1996) "Screening derivatized peptide libraries for tight binding inhibitors to carbonic anhydrase II by electrospray ionization mass spectrometry," J. Med. Chem. 39:1949-1955
A	Geysen et al. (1986) "A priori delineation of a peptide which mimics a discontinuous antigenic determinant," Mol. Immunol. 23:709-715
A	Q Geysen et al. (1987) <u>J. Immun. Meth.</u> 102:259-274
А	Haag (2000) "Chemspeed Ltd.: Automated and unattended parallel synthesis integrating work-up and analysis," Chimia 54:163-164,
А	Haap et al. (1998) "FT-IR Mapping A New Tool for Spatially-Resolved Characterization of Polymer-Bound Combinatorial Compound Libraries with Ir Microscopy," <u>Angew. Chem. Int.</u> <u>Ed.</u> 37(23):3311-3314
A	Houghten (1985) "General method for the rapid solid-phase synthesis of large numbers of peptides," Proc. Natl. Acad. Sci. USA 82:5131-5135
А	Houghten et al. (1991) "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery" Nature 354:84-86
A	Hu et al. (2000) "Automated solid-phase synthesis and photophysical properties of oligodeoxynucleotides labeled at 5'-aminothymidine with Ru(bpy)(2)(4-m-4'-cam-bpy)(2+)," Inorg. Chem. 39:2500-2504
А	W Hughes (1998) "Design of self-coded combinatorial libraries to facilitate direct analysis of ligands by mass spectrometry," Med. Chem. 41:3804-3811
Α	Keifer (1996) "Influence of resin structure, tether length, and solvent upon the high-resolution (1)H NMR spectra of solid-phase-synthesis resins," J. Org. Chem. 61:1558-1559
А	Y Keifer et al. (2000) "Direct-injection NMR (DI-NMR): A flow NMR technique for the analysis of combinatorial chemistry libraries," <u>Journal of Combinatorial Chemistry</u> 2; 151-171
А	Z Konings et al. (1996) "Deconvolution of combinatorial libraries for drug discovery: theoretical comparison of pooling strategies," J. Med. Chem. 39:2710-2719
В	Lake et al. (2000) "Sample preparation for high throughput accurate mass analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry," Rapid Commun. Mass Spectrom. 14:1008-1013

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B/PTO

ADE TO FORMATION DISCLOSURE
STATEMENT BY APPLICANT

С	Complete if Known		
Application Number	09/776233		
Filing Date	February 2, 2001		
First Named Inventor	Nikolai F. Sepetov		
Group Art Unit	Unassigned		
Examiner Name	Unassigned		
Attorney Docket Number	33-000320US		

(use as many sheets as necessary)

ВВ	Lam et al. (1997) "The 'one-bead-one-compound' combinatorial library method," Chem. Rev. 97:411-448
ВС	Lewis et al. (2000) "Automated high-throughput quantification of combinatorial arrays," American Pharmaceutical Review 3:63-68
BD	McGregor and Muskal (1999) "Pharmocophore fingerprinting 1. application to QSAR and focused library design," J. Chem. Inf. Comput. Sci. 39:569-574
BE	Meldal (1992) "PEGA: A flow stable polyethylene glycol dimethyl acryamide copolymer for solid phase synthesis," <u>Tetrahedron Lett.</u> 33:3077
BF	Merrifield (1985) "Solid phase synthesis (Nobel lecture)," Angew. Chem. 97:801
BG	Metzger et al. (1993) "Ion-spray mass spectrometry and high-performance liquid chromatography. Mass spectrometry of synthetic peptide libraries," <u>Angew. Chem. Int. Ed.</u> 32:894-896
ВН	Moran et al. (1995) J. Am. Chem. Soc. 117:10787-10788
BI	Newcomb et al. (1998) "Analysis of 9-fluorenylmethoxycarbonyl (Fmoc) loading of solid-phase synthesis resins by gas chromatography," <u>Biotech. Bioeng.</u> (Comb. Chem.) 61:55-60
BJ	Nicolaou et al. (1995) Angew. Chem. Int. Ed. Engl. 34:24-2479
ВК	North (2000) "Implementation of analytical technologies in a pharmaceutical development organization-looking into the next millennium," <u>Journal of Automated Methods and Management in Chemistry</u> 22:41-45
BL	Pickett et al. (1998) "Strategies for the design and comparison of combinatorial libraries using pharmacophoric descriptors," J. Chem. Inf. Comput. Sci. 38:144-150
ВМ	Pirrung et al., Pirrung (1997) "Spatially addressable combinatorial libraries," Chem. Rev. 97:473-488
BN	Schriemer et al. (1998) "Microscale Frontal Affinity-Chromatography with Mass-Spectrometric Detection - A New Method for the Screening of Compound Libraries," <u>Angew. Chem. Int. Ed.</u> 37(24):3383-3387
ВО	Stevanovic and Jung (1993) "Multiple sequence analysis: Pool sequencing of synthetic and natural peptide libraries," <u>Anal. Biochem.</u> 212:212-220
BP	van Breemen et al. (1997) "Pulsed ultrafiltration mass spectrometry: A new method for screening combinatorial libraries," <u>Anal. Chem.</u> 69:2159-2164
BQ	Wilson-Lingardo et al. (1996) "Deconvolution of combinatorial libraries for drug discovery: experimental comparison of pooling strategies," <u>J. Med. Chem.</u> 39:2720-2726

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

33-000320US

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

First Named Inventor

Group Art Unit

Examiner Name

Complete if Known

Application Number

109/776233

Filing Date

F bruary 2, 2001

First Named Inventor

Group Art Unit

Unassigned

Examiner Name

Unassigned

(use as many sheets as necessary)

BR	Xiao and Nova (1997) <u>Comb. Chem.</u> 135-152
BS	Xiao et al. (1997) Angew. Chem. Int. Ed. Engl. 36:780-782
ВТ	Youngquist et al. (1994) "Matrix-assisted laser desorption ionization for rapid determination of the sequences of biologically active peptides isolated from support-bound combinatorial peptide libraries," Rapid Commun. Mass Spectrom. 8:77-81
BU	Zuckermann et al. (1992) "Design, construction and application of a fully automated equimolar peptide mixture synthesizer," Int. J. Peptide Prot. Res. 40:497-506

Attorney Docket Number

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.